

# ABSTRACT

The present invention relates to environmentally friendly processes and compositions for prevention of qualitative deterioration and quantitative loss of plant matter and foodstuffs, during all stages of storage and handling, including pre- and post-harvest, pre- and post-planting, distribution and marketing. The processes and compositions of the present invention can also be used to prevent sprouting and rooting, and to promote fecundity of certain plant matter. The processes and compositions of the present invention can also be used to eliminate or reduce quantities of harmful organisms and substances from soil, other growth media and substrates, equipment, materials water, workspaces and surfaces.